

## **Task Title: NDI Guidance Material for FAA Aircraft Certification Engineers**

**Investigation Team:** Lisa Brasche and David Eisenmann in response to requests from members of the Aircraft NDI Technical Community Research Group (TCRG).

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**Program initiation date:** Awarded as IA042, September 17, 2001

### **Objective:**

- To relate the role of NDE to the overall lifecycle of aviation components including implications for damage tolerance and safe life design strategies.
- To provide NDE resources, both written and electronic, to support the decision process for FAA certification engineers regarding the effective utilization of NDE technology.
- To determine the effectiveness of delivery of instructional content in various media including the use of written documents, CD based tools including simulations and videos.

### **Research Activities:**

- Establish training design panel in cooperation with TCRG
- Update existing materials for NDI course for FAA Aviation Safety Inspectors
- Utilize training design panel for review of modules
- Transition materials (written, electronic media) to FAA field offices and industry
- Survey effectiveness of delivery mechanism for use in future training development efforts

### **Anticipated Results:**

- ï Revised materials for existing FAA ASI course
- ï NDI web-based resources for ASIs and certification engineers
- ï Guidance materials for NDI tailored for aviation use

### **Accomplishments:**

January 2002: Initial discussions with FAA-AFS personnel to define updates to the existing NDI training course offered by the FAA Training Academy

April 2002: Review meeting with FAA-AFS personnel to review materials for first two training modules

June 2002: First draft of two training modules delivered to FAA-AFS personnel for distribution by review team. Initiation of updates to remaining six modules.

